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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/559,802	03/26/2007	Fritz-Peter Pleschiutschnigg	HM-675PCT	7340
40570 FRIEDRICH K	7590 12/14/200 UEFFNER		EXAMINER	
	AVENUE, SUITE 91		MCGUTHRY BANKS, TIMA MICHELE	
NEW YORK, NY 10017			ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			12/14/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/559,802	PLESCHIUTSCHNIGG ET AL.			
Office Action Summary	Examiner	Art Unit			
	TIMA M. MCGUTHRY-BANKS	1793			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>30 Octoors</u> This action is FINAL . 2b) ☐ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-12 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the original than the original than the correction of the original than the original tha	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)	ate			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) ☐ Notice of Informal P 6) ☐ Other:	atent Application			

DETAILED ACTION

Status of Claims

Claims 1-5, 9 and 12 are currently amended, Claims 6-8, 10 and 11 are as previously presented and Claims 13-19 are cancelled.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1, 6-9, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pleschiutschnigg et al (US 5,991,991) in view of Pleschiutschnigg et al (US 5,832,985), Mabuchi et al (US 6,096,137), JP 406100949 A and Dittrich et al (US 2004/0154437).

Pleschiutschnigg et al '991 in view of Pleschiutschnigg et al '985, Mabuchi, JP '949 and Dittrich et al is applied as discussed in the office action mailed 4/27/2009. Regarding the selection of process route (a), Dittrich et al teaches a desired final microstructure by using degassing (reducing the final content of dissolved gases) under vacuum and a ladle.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pleschiutschnigg et al '991 in view of Pleschiutschnigg et al '985, Mabuchi et al, JP '949 and Dittrich et al, as applied to claim 1 above, and further in view of JP 2000087128 (Derwent abstract) and JP 10130713 (Derwent abstract).

Pleschiutschnigg et al '991 in view of Pleschiutschnigg et al '985, Mabuchi, JP '949, Dittrich et al, JP '128 and JP '713 is applied as discussed in the office action mailed 4/27/2009.

Claims 1 and 6-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pleschiutschnigg et al '991 in view of Pleschiutschnigg et al '985, Mabuchi et al, JP '949, Pleschiutschnigg et al (US 2003/0230163) and Rose et al (US 6,238,453 B1).

Page 3

Pleschiutschnigg et al '991 in view of Pleschiutschnigg et al '985, Mabuchi, JP '949 and Pleschiutschnigg et al '163 is applied as discussed in the office action mailed 4/27/2009. Regarding the selection of process route (b), Pleschiutschnigg et al '163 teaches an EAF with two vessels and a ladle, and refers to DE 19621143 A1 (also Rose et al) to describe the process of using parallel vessels. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the parallel vessels as described in Pleschiutschnigg et al '991 in view of Pleschiutschnigg et al '985, Mabuchi, JP '949 and Pleschiutschnigg et al '163 to achieve a desired final microstructure, since Rose et al teaches that this process results in a base metal with a final analysis with austenites, ferrites and martensites (column 2, lines 15-18).

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pleschiutschnigg et al '991 in view of Pleschiutschnigg et al '985, Mabuchi et al, JP '949, Pleschiutschnigg et al '163 and Rose et al as applied to claim 1, and further in view of JP '713.

Pleschiutschnigg et al '991 in view of Pleschiutschnigg et al '985, Mabuchi, JP '949, Pleschiutschnigg et al '163, Rose et al and JP '713 is applied as discussed in the office action mailed 4/27/2009.

Art Unit: 1793

Claims 1, 4 and 6-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pleschiutschnigg et al '991 in view of Pleschiutschnigg et al '985, Mabuchi et al, JP '949 and Gero (US 3,523,785).

Pleschiutschnigg et al '991 in view of Pleschiutschnigg et al '985, Mabuchi et al, JP '949 and Gero is applied as discussed in the office action mailed 4/27/2009. Regarding the selection of process route (c), Gero teaches a desired final microstructure by degassing.

Claims 1 and 5-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pleschiutschnigg et al '991 in view of Pleschiutschnigg et al '985, Mabuchi et al, JP '949 and Keilman et al (US 4,390,362).

Pleschiutschnigg et al '991 in view of Pleschiutschnigg et al '985, Mabuchi et al, JP '949 and Keilman et al is applied as discussed in the office action mailed 4/27/2009. Regarding the selection of process route (d), Keilman et al teaches that vacuum degassing removes materials that can cause porosity, flaking, embrittlement, voids, inclusions and other undesirable conditions after the steel after it is solidified.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pleschiutschnigg et al '991 in view of Pleschiutschnigg et al '985, Mabuchi et al, JP '949 and Dittrich et al, Pleschiutschnigg et al '163 and Rose et al, Gero or Keilman et al as applied to claim 1 above, and further in view of Cornet et al (US 6,821,356 B2).

Pleschiutschnigg et al '991 in view of Pleschiutschnigg et al '985, Mabuchi et al, JP '949 and Dittrich et al, Pleschiutschnigg et al '163 and Rose et al, Gero or Keilman et al and Cornet et al is applied as discussed in the office action mailed 4/27/2009.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file. However, applicant has not filed a certified copy of German patent 103 25 955.4. Therefore, priority is based on the 371 date, which is 5/25/2004.

Response to Arguments

Applicant's arguments with respect to the drawings have been fully considered and are persuasive. The objection of the drawings has been withdrawn.

Applicant's arguments filed 10/30/2009 with respect to the claims have been fully considered but they are not persuasive. Applicant argues that the references neither individually nor combined present any teaching that would make the presently claimed invention obvious, specifically the step of selecting a process route from the options recited in Claim 1 according to a final microstructure. The examiner addresses this argument based on the claims as amended in the rejections above. The selection of the process routes for a desired microstructure is taught by the cited prior art since each process route impacts the microstructure as described above.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Art Unit: 1793

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TIMA M. MCGUTHRY-BANKS whose telephone number is (571)272-2744. The examiner can normally be reached on M-F 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George Wyszomierski/ Primary Examiner Art Unit 1793

/T. M. M./ Examiner, Art Unit 1793 12 December 2009